

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 77-30

WASTEWATER RECLAMATION REQUIREMENTS FOR:

SANITARY DISTRICT NO. 6 OF MARIN COUNTY
NOVATO, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The Sanitary District No. 6 of Marin County, hereinafter referred to as the discharger, submitted a report of waste discharge dated March 3, 1977.
2. The discharger proposes to establish a limited reclaimed wastewater distribution program for the distribution points shown on Attachment I. The uses of reclaimed wastewater include landscape irrigation of public parks, playgrounds and other public areas; roadway landscaping; dust control and soil compaction at construction sites; street sweeping; sanitary sewer cleaning; and manufacture of ready-mix concrete in the Novato area.
3. All wastewater will be picked up by tank truck and applied to the use area by spraying or surface spreading. All use will take place from the truck, water will not be injected into a fixed irrigation system. There will be no use on residential landscaping.
4. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Paragraph 2 could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through Section 8050, California Administrative Code. These objectives have been superceded by Title 22, Section 60501-60357, California Administrative Code.
6. The limited reclaimed wastewater distribution program meets the criteria for a class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines).

7. The wastewater reclamation requirements are in conformance with the statewide reclamation criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
8. This Regional Board has notified the discharger, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
9. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the discharger, Sanitary District No. 6 of Marin County, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The treatment distribution or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed water shall be at all times an adequately disinfected, oxidized water and shall meet the following quality limits at all times:

| | |
|--------------------|---|
| 5-day BOD | 40.0 mg/l, maximum |
| Dissolved Oxygen | 1.0 mg/l, minimum |
| Dissolved Sulfide | 0.1 mg/l, maximum |
| Coliform Organisms | Median MPN shall not exceed twenty-three (23) coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses. |
3. All tank trucks and spray equipments which may at any time contain wastes shall be adequately and clearly identified with warning signs and discharger and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.

B. Reclaimed Wastewater Use Prohibitions

1. No wastewater shall be applied to the use areas during periods of rainfall or when soils are saturated.
2. No reclaimed wastewater used for irrigation shall be allowed to escape the specified use areas, either by surface flow or airborne spray.

3. No reclaimed wastewater shall be applied for uses not approved in this Order as listed in Finding No. 2, or on locations other than those approved by the discharger and no wastewater shall be disposed of into storm sewers.
4. No reclaimed wastewater used for irrigation shall be applied closer than 50 feet from picnic tables and other food and drinking water outlets.

C. Provisions

1. A licensing system and surveillance program shall be developed by the discharger for the control of trucking operations. Each truck driver issued a license must be instructed as to the requirements contained herein and the potential health hazards associated with the reuse of wastewater. Use of reclaimed wastewater shall not commence until the licensing and surveillance program has been established and approved by the Executive Officer of this Board.
2. This Order includes items numbered 1 through 8 of the attached "Standard Provisions for the Use of Reclaimed Water" dated March 15, 1973.
3. No reclaimed wastewater to be applied for the uses specified in this Order shall be dechlorinated.
4. Additional use locations and users for the categories of use specified in Finding 2 may be authorized by the discharger subject to the limitations of this Order.
5. The Executive Officer may withdraw authorization for specific uses in the event that the terms and conditions of this Order are violated.
6. The discharger is required to submit each month a report according to the schedule for sampling, measurement, and analysis given in Table I (attached). A list of additional users and use locations approved by the discharger shall be submitted with this report. The report shall contain a summary of surveillance activities conducted by the discharger to monitor the hauling and application of wastewater including what observations were made and corrective actions taken regarding violations.
7. The discharger shall not provide users with wastewater unless the truck driver presents an authorization issued by Sanitary District No. 6 of Marin County. Said authorization shall include user's name, driver's name, authorized uses and locations, and a summary of use restrictions as specified in this Order. This authorization shall be presented on request to the staff of the Regional Board.
8. The discharger and users shall take all measures necessary to minimize public contact with reclaimed wastewater.

9. Sanitary District No. 6 of Marin County is required to submit a summary report by the end of each calendar year to include the following:

- a. Locations at which and volume of reclaimed wastewater that has been applied for irrigation.
- b. Construction projects which have benefited from the use of reclaimed wastewater.
- c. Community acceptance, benefits and costs of the reclamation program.
- d. Any adverse impacts of the program, including possible hazards to public health or degradation of ground or surface waters.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on April 19, 1977.

FRED H. DIERKER
Executive Officer

Attachments:

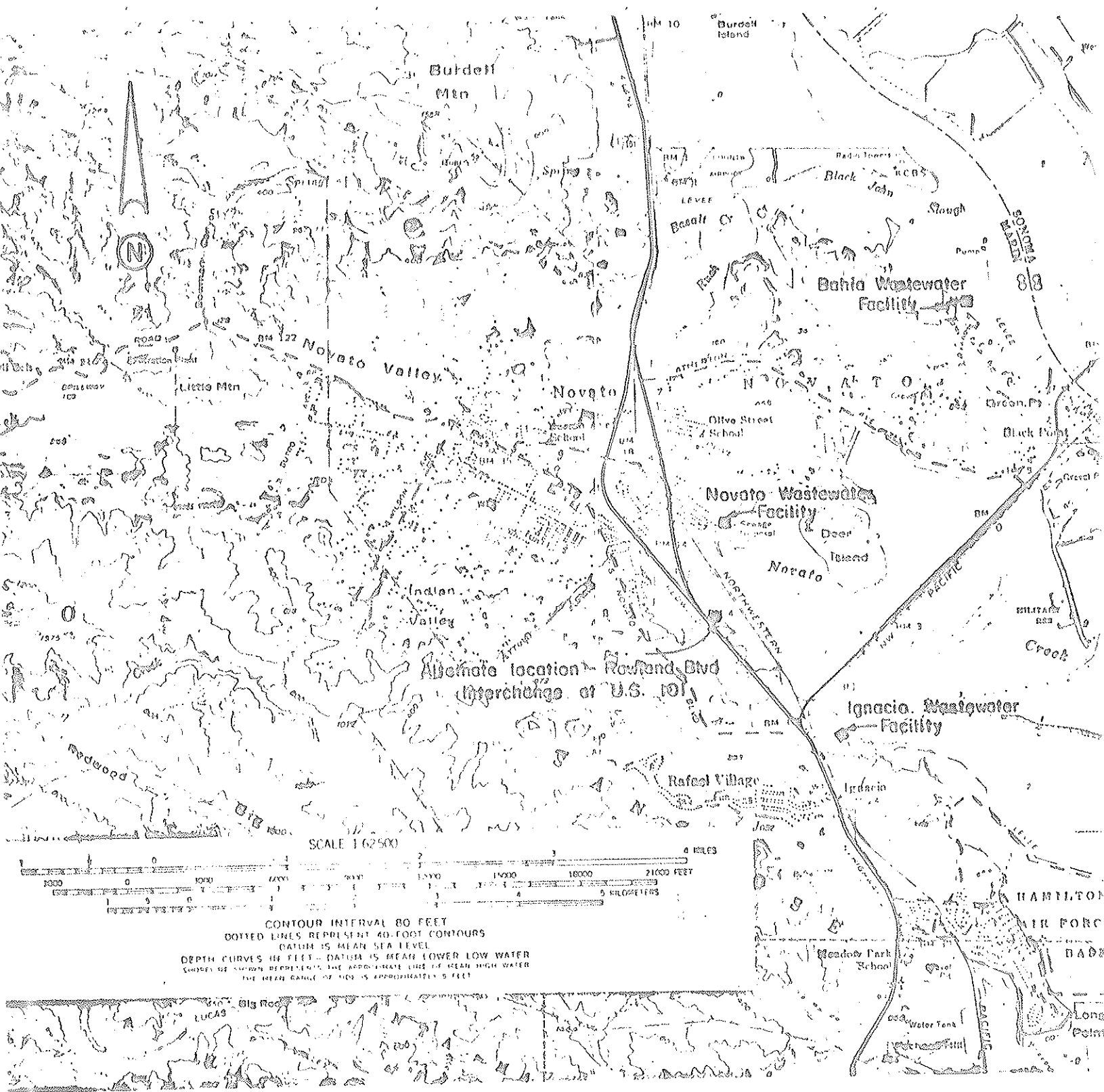
Standard Provisions for the Use of
Reclaimed Wastewater, dated 3/15/73
Location of distribution points (Map)
Table I
List of Users & Locations

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

MARCH 15, 1973

STANDARD PROVISIONS
FOR THE USE OF
RECLAIMED WATER

1. This Board requests the user to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the user.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include wastewaters over which the user has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the user from his liabilities under Federal, State, or local laws, nor guarantee the user a capacity right in the receiving waters.
4. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
5. The user shall file with the regional board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
6. The user shall permit the Regional Board or its authorized representative:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this order.
 - c. Inspection of any monitoring equipment or method required by this order.
 - d. Sampling of any discharge.
7. The user shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
8. The user shall file with the regional board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.



NOVATO SANITARY DISTRICT

LIMITED PROGRAM FOR DISTRIBUTION OF RECLAIMED WASTEWATER -- 1977
LOCATIONS OF RECLAIMED WASTEWATER DISTRIBUTION POINTS

ATTACHMENT I - MAP
ORDER NO. _____

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES 3/

| SAMPLING STATIONS | E-001 thru E-00'n | Use Areas | | | | | | | | |
|--|-------------------------|--------------|--|--|--|--|--|--|--|--|
| TYPE OF SAMPLES | G | | | | | | | | | |
| Reclaimed Wastewater Volume (gallons/day) | D-2/ | | | | | | | | | |
| Coliforms (MPN) | D-2/ | | | | | | | | | |
| Chlorine Residual (mg/l) | 4H 1/2/ | | | | | | | | | |
| Dissolved Sulfide (If D.O. less than 2 ppm) | W | | | | | | | | | |
| BOD (mg/l) | 3/W | | | | | | | | | |
| Dissolved Oxygen | 5/W | | | | | | | | | |
| Observations At Selected Use Areas | | W | | | | | | | | |

LEGEND

Type of Sample

G = grab sample
O = observation

Station

E-001
thru

E-00'n = station(s) representative of
treatment plant effluent
being diverted for reclamation

Frequency of Sampling

4H = every 4 hours
D = daily
W = once each week
X/W = X times a week

- 1/Samples shall be taken during working hours provided all tank trucks are filled during this period of time
- 2/Samples are required to be taken only on days any reclaimed wastewater is being diverted
- 3/Data shall be submitted on the attached monitoring summary form and a copy sent to the Regional Board and County Health Department.

MONITORING SUMMARY FOR WASTEWATER RECLAMATION

DISCHARGER: Sanitary District #6 Marin County

ORDER NO. 77-30

| YEAR | FLOW | TOTAL COLIFORM | | CHLORINE RESIDUAL | DO | BOD ₅ | DISSOLVED SULFIDE | |
|-------|-------------------------|----------------|---|--------------------|---------------------|--------------------|---------------------|--|
| MONTH | | | | | | | | |
| DAY | TOTAL GALLONS RECLAIMED | MPN/100 ml | MPN/100 ml 7 DAY MEDIAN (23 MPN/100 ml) | mg/l DAILY MINIMUM | mg/l (1.0 mg/l min) | mg/l (40 mg/l max) | mg/l (0.1 mg/l max) | |
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SANITARY DISTRICT NO. 6 OF MARIN COUNTY

A LIMITED RECLAIMED WASTEWATER DISTRIBUTION PROGRAM

LIST OF USERS AND LOCATIONS

1. Sanitary District No. 6 of Marin County
500 Davidson Street
Novato, California 94947
 - a. Olive Pump Station
Olive and Railroad Avenues
 - b. Marin Village Pump Station
South Novato Boulevard, north of Rowland Boulevard
 - c. Sewer testing and cleaning throughout Novato
2. City of Novato
P. O. Box 578
Novato, CA 94947
 - a. Miwok Park
Novato Boulevard, west of Eucalyptus Avenue
 - b. Pioneer Park
Simmons Lane, north of Virginia Avenue
 - c. Gerner Park
7th Street at Novato Creek
 - d. Arroyo Avichi Park
North end of Taft Court
 - e. Olive Playground, Olive School
Olive Avenue, east of Westwood Drive
 - f. Tot Lot Playground
Railroad and Olive Avenues
 - g. Tot Lot Playground
Joyce Street south of Adele Street
 - h. Lynwood Park
South end of Leafwood Court
 - i. Marin Highlands Mini Park
South end of Blanca Drive
 - j. Mini Park
Topaz Drive at Malobar Drive

Sanitary District No. 6 of Marin County
A Limited Reclaimed Wastewater Distribution Program
List of Users and Locations

2. City of Novato (Continued)

- k. Mini Park
Topaz Drive between Misty Road and Andale Avenue
- l. Mini Park
Topaz Drive at Baruna Court
- m. Mini Park
Santana Road, north of Topaz Drive
- n. Mini Park
Santana Road, west of Albatross Drive
- o. Parkways, Islands, and Street Landscaping
throughout Novato

3. Novato Unified School District
1015 7th Street
Novato, CA 94947

- a. Novato High School
625 Arthur Blvd.
- b. San Marin High School
15 San Marin Drive
- c. Sinaloa Junior High School
2045 Vineyard Road
- d. San Jose Junior High School
1000 Sunset Parkway
- e. Hill Junior High School
720 Diablo Avenue
- f. Lynwood School
1320 Lynwood Drive
- g. Marion School
1705 Marion Avenue

4. Marin Community College District
Indian Valley Colleges
1800 Ignacio Boulevard
Novato, CA 94947

- a. Indian Valley Colleges
1800 Ignacio Boulevard

Sanitary District No. 6 of Marin County
A Limited Reclaimed Wastewater Distribution Program
List of Users and Locations

5. North Marin County Water District
999 Rush Creek Place
Novato, CA 94947
 - a. Administrative Offices
999 Rush Creek Place
6. Golden Gate Bridge Highway and Transportation District
P. O. Box 9000, Presidio Station
San Francisco, CA 94129
 - a. Bus Maintenance Facility
801 Cherry Street, Novato
7. Novato General Hospital
1625 Hill Road
Novato, CA 94947
 - a. Hospital Landscaping
1625 Hill Road
8. Living History Centre
P. O. Box B
Novato, CA 94947
 - a. Renaissance Pleasure Faire
Black Point, Novato
9. Shamrock Materials of Novato, Inc.
7552 Redwood Boulevard
Novato, CA 94947
 - a. Dust Control, Washdown, and Concrete Mix Water
7552 Redwood Boulevard
10. State of California
Department of Transportation
611 Payran Street
Petaluma, CA 94952
 - a. Median, Interchange and other freeway landscaping
at various location - San Rafael North
11. W. A. Forde Construction Co., Inc., Grading Contractor
42 Industrial Way
Greenbrae, CA 94904
 - a. Dust control and soil compaction at various construction
sites in Novato area
12. W. K. McLellan Co., Grading Contractor
77 Mark Drive
San Rafael, CA 94903
 - a. Dust control and soil compaction at various construction
sites in Novato area

Sanitary District No. 6 of Marin County
A Limited Reclaimed Wastewater Distribution Program
List of Users and Locations

21. Soiland, Inc., Sewer Contractor
11 Hamilton Drive
Novato, CA 94947
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
22. William Keller, Sewer Contractor
8360 Industrial Avenue
Cotati, CA 94928
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
23. Tom Hendrickson, Sewer Contractor
8572 Loretto Avenue
Cotati, CA 94928
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
24. Tam Sewers Inc., Sewer Contractor
234 Shoreline Highway
Mill Valley, CA 94941
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
25. J. A. Avella, Inc., Sewer Contractor
16 DeLuca Place
San Rafael, CA 94901
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
26. S. H. Cervantes, Inc., Sewer Contractor
P. O. Box 475
Fairfax, CA 94930
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
27. C. B. Smith, Inc., Sewer Contractor
834 Vallejo
Novato, CA 94947
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area
28. Roto-Rooter, Sewer Contractor
127 Pamaron Way
Novato, CA 94947
 - a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area

Sanitary District No. 6 of Marin County
A Limited Reclaimed Wastewater Distribution Program
List of Users and Locations

29. San Rafael Equipment Co., Sewer Contractor
47 DeLuca Place
San Rafael, CA 94901

- a. Dust control, soil compaction and sewer cleaning and testing at various construction sites in Novato area